APPENDIX

Interface Specification

IDispatch & IErrorInfo

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All interfaces support Idispatch, which has a built-in IErrorInfo support. This approach will provide an easy way to test the interface, or incorporate into another applications. For the first release, we will not support dual interface.

Events

For many occasions, the session object on the server will notify the client with an event that causes the session status to change. These events are defined as a enum here.

} NSL_EVENT;

Event	Description
NSLEV_PROPERTY_CHANG	A property has been changed. You will get this event when you call
ED	CreateSession or RecreateSession as well as changing properties
	after the session has been created.
NSLEV_UNAUTHORIZED_C	A property has been changed without the author's knowledge You
HANGED	will get this event when the NetShow administrator changes some
	property of the station, program, or stream that belong to this session
	on the server. This is potentially dangerous because some properties
	are coordinated between all components. This may cause it to be out
	of sync. The session may not operate properly.
NSLEV_SESSION_CREATE	The session has been created. This would be an expected response of
D	CreateSession call, if it has been created successfully. You will not
	get this event when you call RecreateSession because the session has
	already been created.

NSLEV_SESSION_DELETE	The session has been deleted. You will get this event when the
D	session has been deleted successfully by call DeleteSession. You
	will also get this event when a NetShow administrator deletes a
	station, program or stream that belongs to this session on the server.
NSLEV_SESSION_STARTE	The session has started. You will get this event when the session has
D	started by calling StartSession. You will also get this event when a
	NetShow administrator starts the stream that belongs to this session on
	the server.
NSLEV_SESSION_STOPPE	The session has stopped. You will get this event when the session has
D	started by calling StopSession. You will also get this event when a
	NetShow administrator stops the stream that belongs to this session on
	the server.
NSLEV_SERVER_ERROR	There was an error on the server and the client has lost connection to
	the server. Most likely, the service has been stopped. You should
	save the session information and recreate the session later.

IASFSession

Property	Description
Control	Access to the INSLiteSession interface of the object. This is a read-only property.
Property	Access to the IASFSessionProp interface of the object. This is a read-only property.

Event	Description
StatusChanged	The session status has changed. The long status parameter identifies the cause of the changes (NSL_EVENT).

IASFSessionProp

All required properties must be set before the session can be created. If you query the property that has not been set (empty), you will get the result of E_FAIL.

(*) Required property.

(!) Property cannot be changed after the session is created.

Property	Description
Name (!)	The name of the session. The default is null. If specified, it must be unique among the sessions on the server, as well as globally in order to be able to recreate the session later. If not, a globally unique name is generated.

	The human-readable title of the session. The default is the same as
	A 7
	Name property.
ı	Nicks about the manus will amount of Chand and Cilin's data on the
	Note that the name will appear as 'Show' and 'Clip' title on the
	client's player.
Description	The textual description of the session. The default is null.
٠,	Note that the description will appear on the client's player.
	The author's name. The default is null.
	The author's hance. The default is hull. The copyright notice of the content. The default is null.
	The IP address or the name of the machine where REX is running.
` '	S 1
	The default is null.
	This amount a most be not if you want the gomest to prove
	This property must be set if you want the server to connect to REX
0	directly. If this property is set, the REX Alias will be ignored.
	This are the sea if the sea Orle is sea DEV Alice and L
1	This property must be set if Unicast Only is set. REX Alias cannot be
	used.
	The port on the machine to use to communicate with REX. The
	default is 7007
	The alias that is used to find the REX address. The default is null.
and not using Unicast Only)	T
•	This property must be set if you want the server to connect to REX
· · · · · · · · · · · · · · · · · · ·	via the alias. If the REX Address is set, this property will be ignored.
.	mit to the state of the state of
I I	This property is always ignored, if Unicast Only is set. In this cast,
	REX address must be set.
	The URL where the ASD file is used to configure REX. The
I .	default is null, which means the stream format is one of the SSF.
	This property is ignored if Unicast Only is set.
• • • • • • • • • • • • • • • • • • • •	Directory path name, in UNC or local file format, where the system
l l	can generate and store files that must be accessed by the clients.
	The NSC and the ASX files required by the session will be created
l h	here. The default is null (invalid).
	Base URL for the client to access, equivalent of the Base Directory
	property. The client will access the NSC and ASX files from this
	base URL. The default is null (invalid).
	URL that client can use to generate log of its activities and statuses.
	The actual logging is implemented by a cgi script behind this URL.
	The default is null (no log created).
	The session's contact address. The default is null.
	The session's contact phone number. The default is null.
Contact Email	The session's contact email. The default is null.
Auto Archive S	Specifies whether the content should be automatically archived.

Auto Austino Discosto	
Auto Archive Directory	Directory path name where the archive file is generated. Valid only
	when the Auto Archive property is set. The default is null, which is
	invalid when the Auto Archive property is set.
Auto Archive Size	The file size limit of the archive file. The default is 0 (unlimited).
Unicast Only (!)	The session will be unicasted only. The default is no. If set to yes,
	all multicast properties will be ignored.
Unicast Rollover (!)	Specifies whether to allow unicast rollover or not. The default is no.
	This property is ignored if Unicast Only is set.
	Note that the unicast manager is assumed to be installed on the same
	machine as the NetShow services.
Multicast Address	The IP multicast address used for broadcasting. The default is null.
	If specified, it must be a valid multicast IP address, unique among
	other addresses used on the server. If not, an address will be
	generated. This property is ignored if Unicast Only is set.
Multicast Port	The port used for broadcasting. The default is null. If specified, it
	must be a valid port, unique on the IP address used on the server. If
	not, a port number will be generated. This property is ignored if
	Unicast Only is set.
Multicast TTL	The multicast time-to-live. The default is 1 (for Intranet). This is the
	number of 'hops' the multicast packets can make before reaching the
	destination. This property is ignored if Unicast Only is set.
Drop-Dead Time	The date and time when the session should already be done. If the
Diop-Dead Time	session has not been deleted by then, the system will delete it. The
	•
	default is null (24 hours after it is created). This property makes
	sure that the server can clean up if for some reason the user didn't.

IFTSSession

Property	Description
Control	Access to the INSLiteSession interface of the object. This is a read-only property.
Property	Access to the IASFSessionProp interface of the object. This is a read-only property.

Event	Description
StatusChanged	The session status has changed. The long status parameter identifies
	the kind of changes (NSL_EVENT) that has occurred.

IFTSSessionProp

All required properties must be set before the session can be created. If you query the property that has not been set (empty), you will get the result of E_FAIL.

(*) Required property.
(!) Property cannot be changed after the session is created.

(!) Property cannot be changed after the session is created.		
Property	Description	
Name (!)	The name of the session. The default is null. If specified, it must be	
	unique among the sessions on the server, as well as globally in order	
	to be able to recreate the session later. If not, a globally unique	
	name is generated.	
Description	The textual description of the session. The default is null.	
Author	The author's name. The default is null.	
Copyright	The copyright notice of the content. The default is null.	
Source Base URL (*)	The base URL or UNC where the slides are. Wildcards characters are	
	allowed to defines the source file names. The default is null (invalid).	
	Note that the files in the subdirectory, if any, will not be transferred.	
Output Base URL (*)	The base URL that the client will recognize as when the files are	
	finally transferred to the client machine. The source file names are	
	used to complete the URL by concatenating with the base URL.	
	The default is null. This property is used to pre-load the client's	
	URL cache with these files.	
	•	
	Note that this property must be set if you want the files to go into the	
	URL cache on the client's machine. If this property is set, the	
	Output Base Directory property will be ignored.	
Output Base Directory (* if no	The base directory in the client where the files will be transferred to.	
Output Base URL)	The default is %TEMP%, which means the files will go into the	
	temporary directory of the client defined by the TEMP environment	
	parameter.	
	Note that this parameter is ignored if the Output Base URL property is	
	set.	
Redundancy Ratio	The percentage of how much data redundancy to be transferred.	
Reduited Ratio	Using the unreliable transfer protocol, sending redundant data	
	increase the probability that the client would get the data	
	completely. In the intranet, where packet loses are minimal, this can	
	be small. The default is 20%.	
Data Bandwidth	The maximum data transfer rate. This is specified in Kbps. The	
	default is 256.	
Contact Address	The session's contact address. The default is null.	
Contact Phone Number	The session's contact phone number. The default is null.	
Contact Email	The session's contact email. The default is null.	
Multicast Address	The IP multicast address used for broadcasting. The default is null. If	
	specified, it must be a valid multicast IP address, unique among other	
	addresses used on the server. If not, an address will be generated.	
Multicast Port	The port used for broadcasting. The default is null. If specified, it	
	must be a valid port, unique on the IP address used on the server. If not, a port number will be generated.	

Multicast TTL	The multicast time-to-live. The default is 1 (for Intranet). This is
	the number of 'hops' the multicast packets can make before
	reaching the destination.
Drop-Dead Time	The date and time when the session should already be done. If the
	session has not been deleted by then, the system will delete it. The
	default is null (24 hours after it is created). This property makes
	sure that the server can clean up if for some reason the user didn't.

INSLiteSession

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pDate	The pointer to the date and time, in GMT, returned from the server.
prace	The pointer to the date and time, in Givit, returned from the server.

This method returns the current server date and time.

Return Value:

S_OK	No error
E_FAIL	The system fails to provide date/time.

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pwStatus	The pointer to the status returned.
DWDCacas	1 The pointer to the status returned.

This method returns the object status. The status may be:

NSL_INACTIVE	The object is instantiated, but not associated with any session on the
	server.
NSL_ACTIVE	The object is associated with a session on the server. The session is not broadcasting any streams.
NSL_STARTED	The object is associated with a session that is in the process of broadcasting the streams

Return Value:

			
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	l No error		
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This method creates the session on the server according to the properties set on the object. The object status will change from NSL_INACTIVE to NSL_ACTIVE. Upon successful creation, you will get the NSLEV_PROPERTY_CHANGED event and then the NSLEV_SESSION_CREATED event.

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Return Value:

S_OK	No error
E_OUTOFMEMORY	The server is running out of memory.
NS_E_INVALID_REQUEST	The object is already active with a session.
E_INVALIDARG	The properties are not set properly. For example, required properties are not set.
NS_E_DUPLICATE_NAME	The session name is already in use.
WSAADDRESSINUSE	The multicast IP address and port is already in used.

You may also get other NetShow specific error return value. Please check nserror.h.

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pszName	The pointer to the name of the session on the server

This method regains the control and properties of the session that has been created previously by CreateSession method. The object status will change to NSL_ACTIVE. Previous association with other session will be lost. Upon successful recreation, you will get the NSLEV_PROPERTY_CHANGED event.

Return Value:

No error
The session is not found, or it was not created by this service, or the station, program or stream has been modified beyond recognition by this service.

You may also get other NetShow specific error return value. Please check nserror.h.

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pszName	The pointer to the name of the session on the server

This method finds the session that has been created previously by CreateSession method.

Return Value:

S_OK	No error
E_INVALIDARG	The session is not found in the database.

III-FULL EXCENSES (VOLE))

This method starts broadcasting. The status of the object will change from NSL_ACTIVE to NSL_STARTED.

Return Value:

S_OK	No error
NS_E_INVALID_REQUEST	The object is not active or the session is unicast only. You must call CreateSession or RecreateSession first and create a multicast session.

You may also get other NetShow specific error return value. Please check 5 nserror.h.

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This method stops broadcasting. The status of the object will change from NSL_STARTED to NSL_ACTIVE.

Return Value:

S_OK	No error
NS_E_INVALID_REQUEST	The object is not active or has already been started. You must call
	CreateSession or RecreateSession and start it first.

You may also get other NetShow specific error return value. Please check nserror.h.

THE POPOSESSION (VOICE)

This method deletes the session from the server. If the session is broadcasting, it will stop. The status of the object will change from NSL_ACTIVE or NSL_STARTED to NSL_INACTIVE.

Return Value:

S_OK	No error
NS_E_INVALID_REQUEST	The object is not ready. You must call CreateSession or
	RecreateSession first.

You may also get other NetShow specific error return value. Please check nserror.h.

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